APRIL/MAY 2025

23UCS11/23USC11 — OBJECT ORIENTED PROGRAMMING CONCEPTS USING C++

Time : Three hours | Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is the purpose of using Loops?
2. Give the syntax of if-else-if condition.
3. State the purpose of Functions.
4. Define an object.
5. Define Inheritance.
6. What is an abstract class?
7. Define an array.
8. What is the purpose of using Pointer?
9. Define class template.
10. Give the syntax of substr( ).

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SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain with Example For... loop.

Or

(b) Discuss about In line functions.

12. (a) Explain how to define a member function.

Or

(b) Write a note on parameterized constructors.

13. (a) Explain Unary operator overloading.

Or

(b) Write a note on type conversions.

14. (a) Write a note on :

(i) New operator

(ii) Delete operator.

Or

(b) Discuss about Arrays and its characteristics.

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15. (a) Write a C++ program to count the number of lines in a text file.

Or

(b) Write a note on Exception handling.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Briefly explain the basic concepts of oops in C++.

17. Explain the friend function in detail.

18. Discuss in detail about Multilevel Inheritance.

19. Explain about Pointers with example.

20. Explain with example String objects.

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